



# THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

## Royal Sluis

Whereas, THERE HAS BEEN PRESENTED TO THE

**Secretary of Agriculture**

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF *seventeen* YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT (AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

CAULIFLOWER

'Nimba Meda'



In Testimony Whereof, I have hereunto set  
my hand and caused the seal of the Plant  
Variety Protection Office to be affixed  
at the City of Washington  
29th day of January in  
the year of our Lord one thousand nine  
hundred and eighty.

Attest:

*[Signature]*  
Commissioner  
Plant Variety Protection Office  
Grain Division  
Agricultural Marketing Service

*[Signature]*  
Secretary of Agriculture

UNITED STATES DEPARTMENT OF AGRICULTURE  
AGRICULTURAL MARKETING SERVICE  
GRAIN DIVISION  
PLANT VARIETY PROTECTION OFFICE  
NATIONAL AGRICULTURAL LIBRARY  
BELTSVILLE, MARYLAND 20705

## APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

INSTRUCTIONS: See Reverse.

1a. TEMPORARY DESIGNATION OF VARIETY NIMBA MEDA		1b. VARIETY NAME NIMBA MEDA		FOR OFFICIAL USE ONLY PV NUMBER 7800080	
2. KIND NAME CAULIFLOWER		3. GENUS AND SPECIES NAME Brassica oleracea var. botrytis		FILING DATE 11-12-77	TIME 3:00 A.M. P.M.
4. FAMILY NAME (BOTANICAL) Crucifers		5. DATE OF DETERMINATION August 1961		FEE RECEIVED \$ 250.00 \$ 250.00 \$ 250.00	DATE 6-2-78 6-2-78 12-5-79
6. NAME OF APPLICANT(S) ROYAL SLUIS, Koninklijke zaaizaadbedrijven, Gebr. Sluis B.V.		7. ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code) 161, Westeinde Postbox 22 Enkhuizen - Holland		8. TELEPHONE AREA CODE AND NUMBER 02280-2741	
9. IF THE NAMED APPLICANT IS NOT A PERSON, FORM OF ORGANIZATION: (Corporation, partnership, association, etc.) association			10. IF INCORPORATED, GIVE STATE AND DATE OF INCORPORATION		11. DATE OF INCORPORATION
12. Name and mailing address of applicant representative(s), if any, to serve in this application and receive all papers:  Mr. J.G. Timmerman - marketing department Royal Sluis Postbox 22, Enkhuizen Holland					
13. CHECK BOX BELOW FOR EACH ATTACHMENT SUBMITTED:  <input checked="" type="checkbox"/> 13A. Exhibit A, Origin and Breeding History of the Variety (See Section 52 of the Plant Variety Protection Act.) <input checked="" type="checkbox"/> 13B. Exhibit B, Novelty Statement. <input checked="" type="checkbox"/> 13C. Exhibit C, Objective Description of the Variety (Request form from Plant Variety Protection Office.) <input type="checkbox"/> 13D. Exhibit D, Additional Description of the Variety.					
14A. Does the applicant(s) specify that seed of this variety be sold by variety name only as a class of certified seed? (See Section 83(a). (If "Yes," answer 14B and 14C below.) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO					
14B. Does the applicant(s) specify that this variety be limited as to number of generations?  <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		14C. If "Yes," to 14B, how many generations of production beyond breeder seed?  <input type="checkbox"/> FOUNDATION <input type="checkbox"/> REGISTERED <input type="checkbox"/> CERTIFIED			
15. Does the applicant(s) agree to the publication of his/her (their) name(s) and address in the Official Journal?  <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO					
16. The applicant(s) declare(s) that a viable sample of basic seed of this variety will be deposited upon request before issuance of a certificate and will be replenished periodically in accordance with such regulations as may be applicable.  The undersigned applicant(s) is (are) the owner(s) of this sexually reproduced novel plant variety, and believe(s) that the variety is distinct, uniform, and stable as required in Section 41, and is entitled to protection under the provisions of Section 42 of the Plant Variety Act.					

Applicant(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.

(DATE)

(SIGNATURE OF APPLICANT)

Enkhuizen, November 1977

## INSTRUCTIONS

**GENERAL:** Send an original copy of the application, exhibits and \$250.00 fee to U.S. Dept. of Agriculture, Agricultural Marketing Service, Grain Division, National Agricultural Library, Beltsville, Maryland 20705. (See Section 180.175 of the regulations and rules of practice.) Retain one copy for your files. All items on the face of the form are self-explanatory unless noted below.

## ITEM

- 5 Give the date the applicant determined that he had a new variety based on (1) the definition in Section 41(a) of the Act and (2) the date a decision was made to increase the seed.
- 13a Give (1), the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method. (2), the details of subsequent stages of selection and multiplication. (3), the type and frequency of variants during reproduction and multiplication and state how these variants may be identified and (4), evidence of stability.
- 13b Give a summary statement of the variety's novelty. Clearly state how this novel variety may be distinguished from all other varieties in the same crop. If the new variety most closely resembles one or a group of related varieties; (1) identify these varieties and state all differences objectively; (2) Attach statistical data for characters expressed numerically and demonstrate that these differences are significant; and (3) submit, if helpful, seed and plant specimens or photographs of seed and plant comparisons clearly indicating novelty.
- 13c Fill in the Exhibit C, Objective Description form for all characteristics, for which you have adequate data.
- 13d Describe any additional characteristics that are not described, or whose description cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the description of characteristics that are difficult to describe; such as; plant habit, plant color, disease resistance, etc.

14A If "YES" is specified (seed of this variety be sold by variety name only as a class of certified seed) the applicant may NOT reverse his affirmative decision after the variety has either been sold and so labeled or published or the certificate has been issued. However, if the applicant specifies "NO", he may change his choice. (See Section 180.15 of the Regulations and Rules of Practice.)

CAULIFLOWER NIMBA® MEDA13A EXHIBIT A

NIMBA® MEDA has been achieved from a cross of Florablanca x Alpha x Dutch wintercauliflower.

Via family selection, and line-selection in a later stage, the present type has been obtained.

NIMBA® MEDA appears stable and uniform through several years of multiplication.

13B EXHIBIT B Novelty Statement

NIMBA® MEDA has been developed from the same cross as ELGON® and it has been our breeders' aim to obtain a type having a still higher curd than ELGON® and in addition to this NIMBA® MEDA has a larger number of self-covering leaves.

7800080

EXHIBIT B SUMMARY

'Nimba Meda' is most similar to 'Elgon'; except 'Nimba Meda' has a deeper curd (16 cm vs 14 cm), more self-covering leaves (15 vs 12) and darker leaf color (137 B vs 138 B - Royal Horticultural Society Colour Chart) than 'Elgon'.

Approved date: See letter of September 28, 1979

### 13 B Exhibit B : Novelty Statement ELGON

Elgon is an early autumn variety, with a growing period and planthabit comparable to Snowball Y. It differs from this variety in the following points:

- The curd is deeper. Snowball Y's curd depth is 12 cm (s = 1,1; n = 13) and Elgon's is 14 cm (s = 1,2; n = 13) 1)
- Elgon has more selfcovering leaves. While Snowball Y has 10 self-covering leaves (s = 1,0; n = 13), Elgon has 12 selfcovering leaves (s = 1,4; n = 13).
- Elgons leafcolor is darker. The outside color of the inner erected leaves is 138 B<sup>2</sup>) for Elgon and 143 C<sup>2</sup>) for Snowball Y.

### 13 B Exhibit B : Novelty Statement Nimba Meda

Nimba Meda is an early autumn variety, with a growing period and planthabit comparable to Elgon. It differs from this variety in the following points.

- Nimba Meda's curd is deeper. Nimba Meda's average curd depth on our trialfield is 16 cm (s = 1,2; n = 13) 1), while Elgon's = 14 cm (s = 1,2; n = 13).
- Nimba Meda has a large number of selfcovering leaves. The average number is 15 (s = 1,4; n = 13) while Elgon has 12 self-covering leaves (s = 1,4, n = 13).
- Nimba Meda's leaves are slightly darker than Elgon's. The outside color of the inner erected leaves is 137 B<sup>2</sup>) and for Elgon = 138 B<sup>2</sup>).

1) s = standarderror ; n = sample size

2) refers to the Royal Horticultural Society Colour Chart.

FORM GR-470-30  
(7-1-74)U.S. DEPARTMENT OF AGRICULTURE  
AGRICULTURAL MARKETING SERVICE  
GRAIN DIVISION  
HYATTSVILLE, MARYLAND 20782  
**OBJECTIVE DESCRIPTION OF VARIETY**  
**CAULIFLOWER**  
(*Brassica oleracea* var. *botrytis*)NAME OF APPLICANT(S)  
ROYAL SLUIS, Koninklijke Zaaizaadbedrijven  
Gebr. Sluis B.V.VARIETY NAME OR TEMPORARY DESIGNATION  
NIMBA MEDA

ADDRESS (Street and No., or P.F.D. No., City, State, and ZIP Code)

161, Westeinde, Postbox 22, Enkhuizen - Holland

FOR OFFICIAL USE ONLY

PVPO NUMBER

7800080

Place the appropriate number that describes the varietal character of this variety in the boxes below.

Place a zero in first box (e.g.  or ) when number is either 99 or less or 9 or less.

## 1. REGION OF ADAPTATION: (Where best adapted in the U.S.A.)

<input type="text" value="1"/>	1 = NORTHWEST	2 = NORTHCENTRAL	3 = NORTHEAST	4 = SOUTHEAST	5 = SOUTHWEST
	6 = MOST REGIONS				

## 2. SEASON: (Main crop)

<input type="text" value="4"/>	1 = LATE FALL - EARLY WINTER	2 = LATE WINTER - EARLY SPRING
	3 = LATE SPRING - EARLY SUMMER	4 = LATE SUMMER - EARLY FALL

## 3. MATURITY: (Days to 50% harvest)

<input type="text" value="1"/> <input type="text" value="0"/> <input type="text" value="2"/>	FROM TRANSPLANTS	<input type="text" value="1"/> <input type="text" value="9"/>	NO. DAYS HARVESTING PERIOD
<input type="text" value="0"/> <input type="text" value="9"/> <input type="text" value="2"/>	FROM DIRECT SEEDING		

## 4. PLANT HEIGHT: (At harvest)

<input type="text" value="2"/> <input type="text" value="7"/>	CM. FROM SOIL LINE TO TOP OF CURD		
<input type="text" value="0"/> <input type="text" value="6"/>	CM. TALLER THAN	<input type="text" value="3"/>	1 = EARLY ERFURT 2 = SUPER SNOWBALL A
<input type="text" value="0"/> <input type="text" value="1"/>	CM. SHORTER THAN	<input type="text" value="4"/>	3 = SNOWBALL Y
			4 = VEITCH AUTUMN GIANT
			5 = OTHER (Specify) _____

## 5. LEAVES:

<input type="text" value="2"/> <input type="text" value="7"/>	TOTAL NUMBER	<input type="text" value="5"/> <input type="text" value="8"/>	CM. AVERAGE LENGTH AT MID-POINT OF PLANT (Including Petiole)
		<input type="text" value="2"/> <input type="text" value="3"/>	CM. AVERAGE WIDTH AT MID-POINT OF PLANT
<input type="text" value="1"/>	1 = STRAIGHT MARGINS	<input type="text" value="2"/>	1 = THIN VEINS 2 = THICK VEINS
<input type="text" value="1"/>	1 = MOSTLY SESSILE 2 = MOSTLY PETIOLATE		
	3 = EQUALLY SESSILE AND PETIOLATE		
<input type="text" value="3"/>	COLOR: 1 = LIGHT GREEN 2 = MEDIUM GREEN (Snowball No. 10)	<input type="text" value="3"/>	1 = UPRIGHT, EXPOSE CURD
	3 = DARK GREEN (Lecarf Group) 4 = BLUSH GREEN (November)		2 = INCURVED, PARTIALLY COVER CURD
			3 = COMPLETELY COVER CURD (Self blanching)

## 6. CURD:

<input type="text" value="2"/> <input type="text" value="2"/>	CM. DIAMETER	<input type="text" value="1"/> <input type="text" value="1"/>	CM. DEPTH
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## 6. CURD:

7800080

1

1 = TIGHT

2 = LOOSE

3

SHAPE:

1 = FLAT

2 = SEMI-DOME

3 = DOME

2

1 = SMOOTH

2 = KNOBBY

1

COLOR:

1 = BRIGHT WHITE

2 = CREAMY, DULL WHITE

3 = PURPLE-GREEN

1

1 = NO LEAVES IN CURD

2 = LEAVES IN CURD

## 7. DISEASE RESISTANCE: (0 = Not Tested; 1 = Susceptible, 2 = Resistant. Specify race if known)

0

BLACK SPOT

0

CLUBROOT

0

PHYTOPHTHORA ROOT ROT

1

WHITE BLISTER

0

BLACK ROT

0

BOTTOM ROT

0

CERCOSPORELLA LEAF SPOT

0

DOWNY MILDEW

0

POWDERY MILDEW

0

VERTICILLUM WILT

0

BLACK LEG

0

CAULIFLOWER MOSAIC

0

RING SPOT

0

TURNIP YELLOW MOSAIC

0

YELLOWS

0

WIRE STEM

0

OTHER (Specify)

## 8. OTHER RESISTANCE: (0 = Not Tested, 1 = Susceptible, 2 = Resistant)

2

"BUTTONING"

0

"BLINDNESS"

2

"RICEYNESS"

0

"WHIPTAIL"

0

INSECT (Specify)

## 9. INDICATE A VARIETY THAT MOST CLOSELY RESEMBLES THAT SUBMITTED:

CHARACTER	VARIETY	CHARACTER	VARIETY
MATURITY		PLANT COLOR	
ADAPTATION		CURD SIZE	
PLANT HABIT	ELGON	CURD SHAPE	
PLANT SIZE		CURD COLOR	ELGON

## REFERENCE:

Nieuwhof, M. 1969. Cole Crops — World Crop Series, Leonard Hill.

## COMMENTS:

7800080





# ROYAL SLUIS

KONINKLIJKE ZAAIZAADBEDRIJVEN GEBROEDERS SLUIS B.V.

U.S.D.A.  
Agricultural Marketing Service,  
Nat. Agric. Library Building,  
BELTSVILLE, Maryland 20705  
U.S.A.

POSTBOX 22, 1600 AA ENKHUIZEN  
HOLLAND

January 25, 1979.

Att'n.: Mr. Thaddeus E. Frey - Examiner Plant Variety Protection  
Office

Subject: Cauliflower Applications ELGON and NIMBA MEDA

Dear Mr. Frey:

As a result of your letters dated August 11 and 22, 1978, we have carried out an examination on our trialfield that has led to the following outcome:

Elgon and Nimba Meda have more resemblance to each other than to Snowball Y.

Specific differences determined on our 1978 trialfield are:

The leaves of Nimba Meda are somewhat darker than those of Elgon.

The outside color of the inner erected leaves is for Nimba Meda 137 B\*, and for Elgon 138 B\*. The leaves of Snowball Y are still a bit lighter, 143 C\*.


Nimba Meda has 15 self-covering leaves, Elgon 12 and Snowball Y 10.

The depth of the curd:	Snowball Y	12 cm
	Elgon	14 cm
	Nimba Meda	16 cm

We hope that this information will be sufficient, and we are,

Sincerely yours,

ROYAL SLUIS

  
J.C. Timmerman / J. Sluis  
Marketing Department

\* refers to Royal Horticultural Society Color Chart  
JT/NG